

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-365  
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Ford Motor Company exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement<br/>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems<br/>(Special Features)</u>  |
|----------------------|---|---|
| KFM2.2V5FXC4         | 2.2 (133)                                     | Exhaust Gas Recirculation<br>Oxygen Sensor<br>Three-Way Catalyst<br>(Electronic Port Fuel Injection)<br>(On-Board Diagnostics)<br>(Turbocharger)<br>(Intercooler) |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons<br/>(Grams per Mile)</u> | <u>Carbon Monoxide<br/>(Grams per Mile)</u> | <u>Nitrogen Oxides<br/>(Grams per Mile)</u> |
|--|---|---|
| 0.39                                     | 7.0   | 0.4   |

The following are the certification emission values for this engine family:

| <u>Hydrocarbons<br/>(Grams per Mile)</u> | <u>Carbon Monoxide<br/>(Grams per Mile)</u> | <u>Nitrogen Oxides<br/>(Grams per Mile)</u> |
|--|---|---|
| 0.12                                     | 1.7   | 0.2   |

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 31<sup>st</sup> day of December, 1987.



K. D. Drachand, Chief  
Mobile Source Division

## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer Ford Motor Company Engine Family KFM2.2V5FXC4  
 Evaporative Family 9HB Engine Type I4 Otto spark  
 Liters (CID) 2.2 (133)

## ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
 ECU-Electronic Control Unit  
 EI-Electronic Ignition  
 ESAC-Electronic Spark Advance  
       Control  
 VA-Vacuum Advance  
 VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection Pump  
 AIV-Air Injection Valve  
 DBC-Dual Bed Catalyst  
 EGR-Exhaust Gas Recirculation  
 EIC-Electronic Injection Control  
 EM-Engine Modification  
 OC-Oxidation Catalyst  
 OS-Oxygen Sensor  
 HOS-Heated Oxygen Sensor  
 SPL-Smoke Puff Limiter or  
       Throttle Delay  
 TOC-Trap Oxidizer, Continual  
 TOP-Trap Oxidizer, Periodical  
 TWC-Three-way Catalyst  
 WUOC-Warm-up Oxidation Catalyst  
 WUTWC-Warm-up Three-way Catalyst

Special Features

CCV-Combustion  
       Chamber Valve  
 CFI-Central Fuel  
       Injection or  
       Throttle Body  
       Injection  
 DID-Diesel  
       Injection-  
       Direct  
 DIP-Diesel  
       Injection-  
       Prechamber  
 EPFI-Electronic  
       Port Fuel  
       Injection  
 IC-Intercooler  
       or Aftercooler  
 MPFI-Mechanical  
       Port Fuel  
       Injection  
 OBD-On-Board  
       Diagnostics  
 TC-Turbocharger  
 SC-Supercharger  
 SFI-Sequential  
       Fuel  
       Injection

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
 nV-nVenturi Carburetor

VEHICLE MODELS:

Ford Probe 3dr. Hatchback

Engine: Front X Mid      Rear       
 Drive: FWD X RWD      4WD Full Time      4WD Part Time     

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## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

E.O. # A-10-365Page 2Passenger Cars X light-Duty Trucks \_\_\_\_\_ Medium-Duty Vehicles \_\_\_\_\_ Gas X Diesel \_\_\_\_\_Manufacturer Ford Motor Company Engine Family KFM2.2V5FXC4Liter (CID) 2.2 (133) Eng. Type I4, Otto SparkEmission Control Sys. (Special Features) EGR, OS, TWC (EPFI, OBD, TC, IC)

| Engine Code           | Vehicle Models<br>(If Coded see attachment)<br>(Dyno Hp) | Trans. Type | Equiv. Test Weight | Ign. System (ECU)<br>Part No. | Fuel System (Injector)<br>Part No. | EGR Valve<br>Part No. | Catalyst<br>Part No. |
|-----------------------|--|-------------|--------------------|-------------------------------|------------------------------------|-----------------------|----------------------|
| CTF2-MC<br>(with A/C) | Probe 3dr. (6.9)   | M5          | 3125               | F222-18-881H                  | F220-13-250                        | F220-20-300           | F222-20-600A         |
| CFT2-MN<br>(non A/C)  | Probe 3dr. (6.3)   | "           | "                  | "                             | "                                  | "                     | "                    |

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufactureres HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date of Issue DEC 9 1987 Revisions:FCS 2T.WP